

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

04/18/2011

Sean Griffith
Assistant District Attorney, Middlesex County

Dear ADA Griffith,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED] Included are copies of the following:

1. Drug Analysis Laboratory Receipt.
2. Curriculum Vitae for Annie Dookhan & Della Saunders.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Della Saunders was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Khan".

Annie Khan (Dookhan)
Chemist II
Drug Analysis Lab
Jamaica Plain, MA. 02130
(617) 983-6631
Annie.Khan@state.ma.us

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION

The Commonwealth of Massachusetts

Executive Office of Health and Human Services

Department of Public Health

State Laboratory Institute

Boston Drug Laboratory

Tel (617) 983-6622

Fax (617) 983-6625

Amherst Drug Laboratory

Tel (413) 545-2601

Fax (413) 545-2608

Boston Hours

8:00 – 11:00

2:00 – 4:00

Amherst Hours

9:00 – 12:00

1:00 – 3:00

DRUG RECEIPT

City or Department: _____

LOWELL

Police Reference No.: _____

Name and Rank of Submitting Officer: _____

DET. BRYAN W. McMAHON

Defendant(s) Name (last, first, initial): _____

To be completed by Submitter

Description of Items Submitted

To be completed by Lab Personnel

Gross Weight

Lab Number

PB^w/POWDER – COCAINE – 1

810 (5.33g)
(5.30g)

PB^w/FINGER" HEROIN – 1

6.55g

Received by: _____

[Signature]

Date: _____

9-24-09

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

*Maintenance and repairs of all analytical instruments.

*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

*Responsible for the Quality Control/Quality Assurance program for the drug lab.

*Notary Public.

*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

*Writing, revising and reviewing Standard Operating Procedures (SOPs).

*Trained and supervised new chemists and interns for the department.

*Routine QC testing of products for the FDA.

*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

*Complete testing of chemicals for Vendor Validation Project for the FDA.

*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Della Saunders

Education:

Boston University Boston, MA. Bachelors of Arts in Chemistry 1982

Experience:

1985-present: Currently Chemist III Massachusetts Department of Public Health Drug Analysis Laboratory at State Laboratory Institute Boston, MA. Responsible for analyzing unknown substances submitted by Massachusetts law enforcement agencies; operating, maintaining, and interpreting data from analytical equipment (analytical balance, microscope, gas chromatogram, ultraviolet spectrometer, infrared spectrometer, gas chromatogram/mass spectrometer); training junior level chemists; providing expert testimony to local, state, and federal courts in the Commonwealth of Massachusetts.

1984-1985: Laboratory Technician in the Media Laboratory at State Laboratory Institute Boston, MA. Responsible for making chemical reagents and media plates; operating and maintaining laboratory equipment (autoclave, pH meter, ultra-violet hood), and collecting safety data for laboratory protocols.

Training:

1985: Six week training with Senior Staff at Massachusetts Department of Public Health (MDPH) Drug Analysis Laboratory Boston, MA. Appointed Assistant Analyst MDPH

1987: One week training course in drug analysis given by the Federal Drug Enforcement Agency (DEA) McLean, VA.

1992: Training in Gas Chromatograph/Mass Spectroscopy (GC/MS) Hewlett Packard (Agilent)

1996: Training in Fourier Transform Infra-Red Spectroscopy ETA (Analect)

2001: Expert Witness Workshop National Laboratory Training network Quality Assurance/Quality Control Training (MDPH)

2002: Techniques of Supervision Training (MDPH)

1999: Notary Public Commonwealth of Massachusetts

No. [REDACTED]
City: Lowell Police Dept.
Officer: Detective BRYAN MCMAHON
Def: [REDACTED]

Date Analyzed: NOV 11 2009

Amount:

Subst: SUB

No. Cont: 1 Cont: pb

Date Rec'd: 09/24/2009

No. Analyzed:

Gross Wt.: 15.23

Net Weight: 14.00

Tests: 6 ASD

Prelim: cocaine

Findings: cocaine

No. [REDACTED]
City: Lowell Police Dept.
Officer: Detective BRYAN MCMAHON
Def: [REDACTED]

Date Analyzed: NOV 11 2009

Amount:

Subst: SUB

No. Cont: 1 Cont: pb

Date Rec'd: 09/24/2009

No. Analyzed:

Gross Wt.: 6.55

Net Weight: 5.14

Tests: 4 ASD

Prelim: Heroin

Findings: heroin

DRUG POWDER ANALYSIS FORM

SAMPLE # AGENCY Lowell ANALYST AS9

No. of samples tested:

Evidence Wt.

PHYSICAL DESCRIPTION:

white powdered substance
in PB

Gross Wt (): 14.4490

Gross Wt ():

Pkg. Wt:

Net Wt: 14.0014

net wt = 13.9935

Mettler AB104 1117132502
Ohaus N10110 1125493269

PRELIMINARY TESTS

Spot Tests

Cobalt
Thiocyanate (+)

Marquis -

Froehde's -

Mecke's -

Microcrystalline Tests

Gold
Chloride +

TLTA (+)

OTHER TESTS

PRELIMINARY TEST RESULTS

RESULTS cocaine

DATE 11-11-09

GC/MS CONFIRMATORY TEST

RESULTS cocaine

MS
OPERATOR PCS

DATE 11-11-09

DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Lowell ANALYST ADD

No. of samples tested:

Evidence Wt.

PHYSICAL DESCRIPTION:

Beige chunky substance
in 1 pb

wax paper + pb

Gross Wt (): 5.5973

Gross Wt ():

Pkg. Wt:

Net Wt: 5.1468

net wt = 5.1382

Mettler AB104 1117132502
Ohaus N1110 1125493269

PRELIMINARY TESTS

Spot Tests

Cobalt
Thiocyanate (+)

Marquis +

Froehde's +

Mecke's +

Microcrystalline Tests

Gold
Chloride

TLTA ()

OTHER TESTS

PRELIMINARY TEST RESULTS

RESULTS Heroin

DATE 11-4-09

GC/MS CONFIRMATORY TEST

RESULTS Heroin

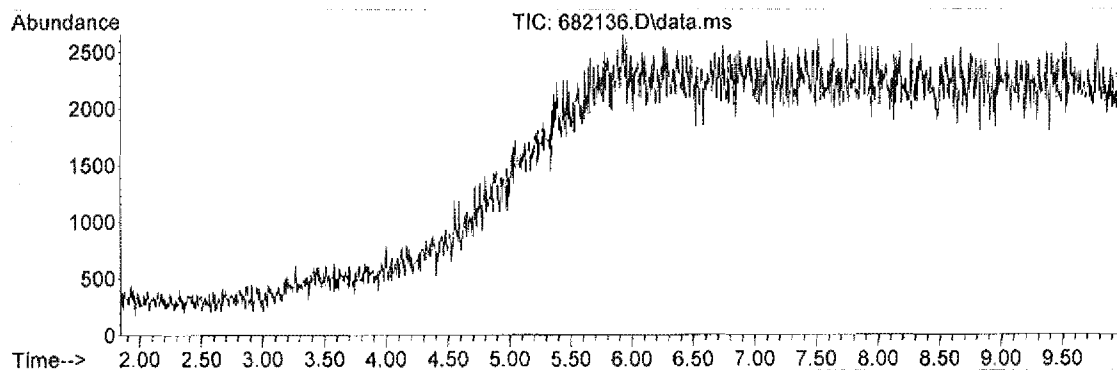
MS
OPERATOR PCS

DATE 11-11-09

Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q4-2009\SYSTEM7\11_10_09\682136.D
 Operator : DCS
 Date Acquired : 10 Nov 2009 16:53
 Sample Name : BLANK
 Submitted by :
 Vial Number : 1
 AcquisitionMeth: DRUGS.M
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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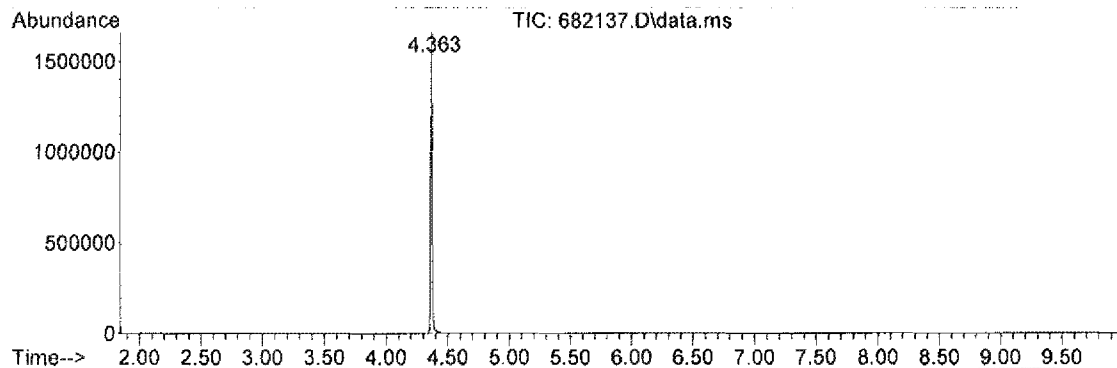
NO INTEGRATED PEAKS

✓ 2/9/11 JES

Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q4-2009\SYSTEM7\11_10_09\682137.D
 Operator : DCS
 Date Acquired : 10 Nov 2009 17:06
 Sample Name : COCAINE STANDARD
 Submitted by :
 Vial Number : 37
 AcquisitionMeth: DRUGS.M
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.363	1490657	100.00	100.00

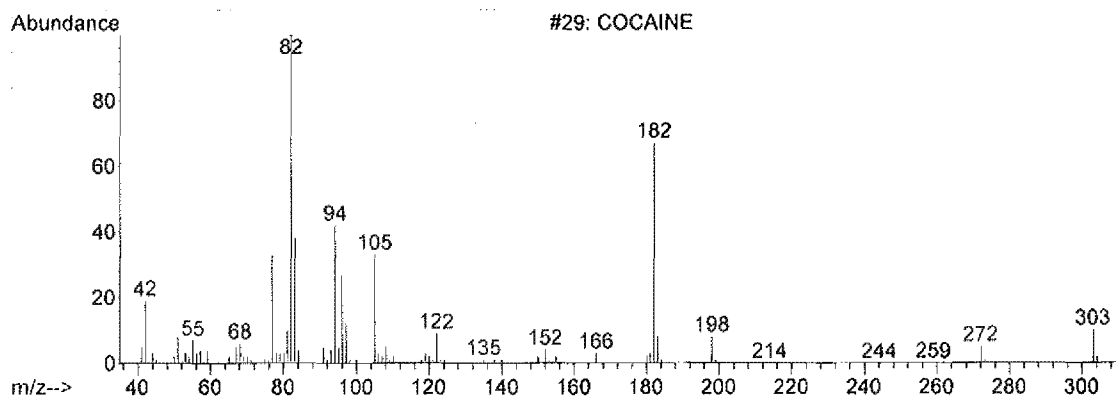
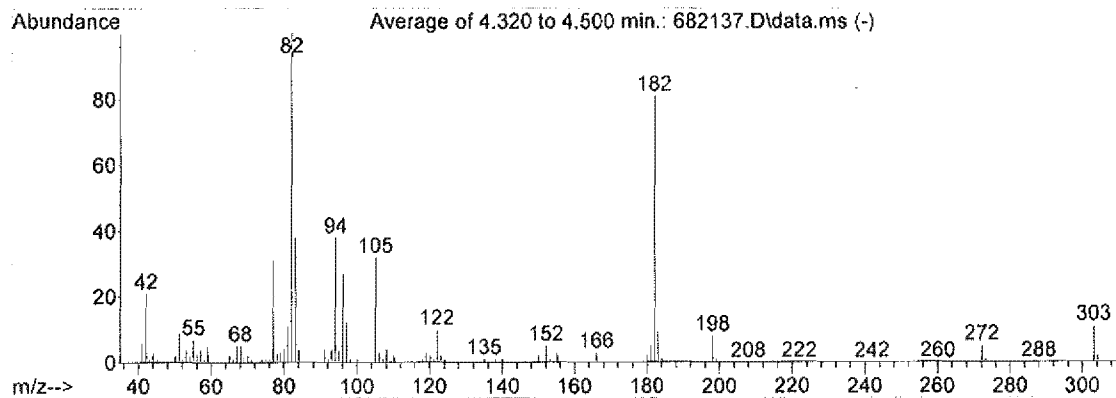
Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q4-2009\SYSTEM7\11_10_09\682137.D
 Operator : DCS
 Date Acquired : 10 Nov 2009 17:06
 Sample Name : COCAINE STANDARD
 Submitted by :
 Vial Number : 37
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 70
 C:\Database\PMW_TOX2.L

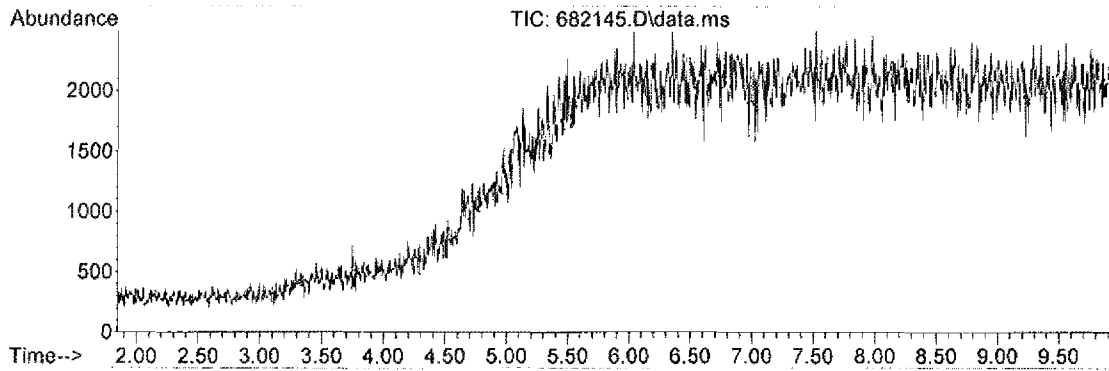
PK#	RT	Library/ID	CAS#	Qual
1	4.36	C:\Database\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q4-2009\SYSTEM7\11_10_09\682145.D
Operator : DCS
Date Acquired : 10 Nov 2009 18:47
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE



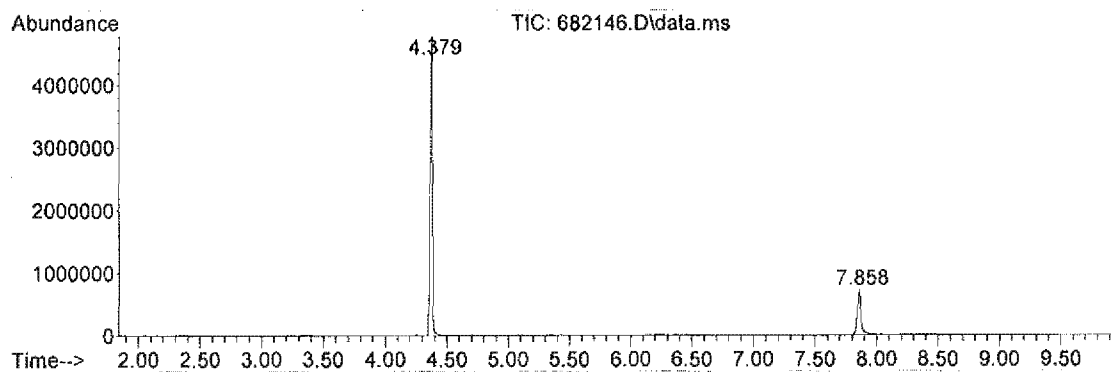
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q4-2009\SYSTEM7\11_10_09\682146.D
 Operator : DCS
 Date Acquired : 10 Nov 2009 18:59
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 46
 AcquisitionMeth: DRUGS.M
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.379	6363927	79.40	100.00
7.858	1650876	20.60	25.94

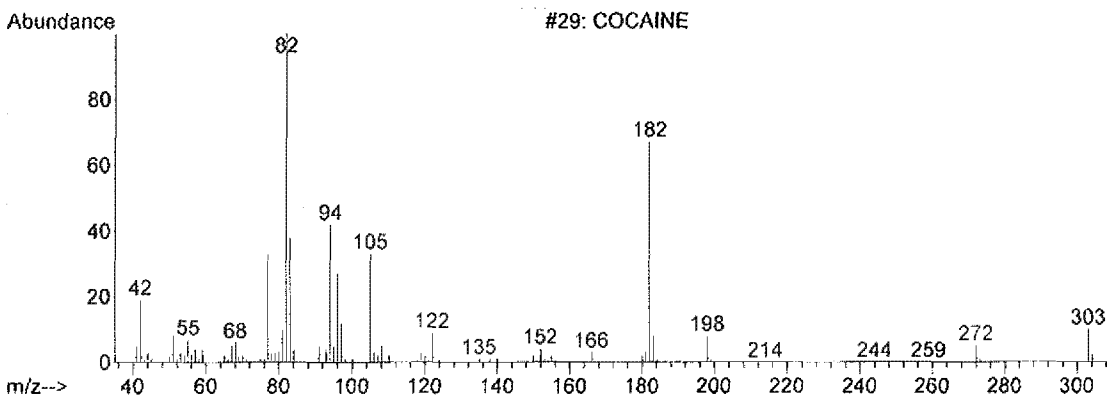
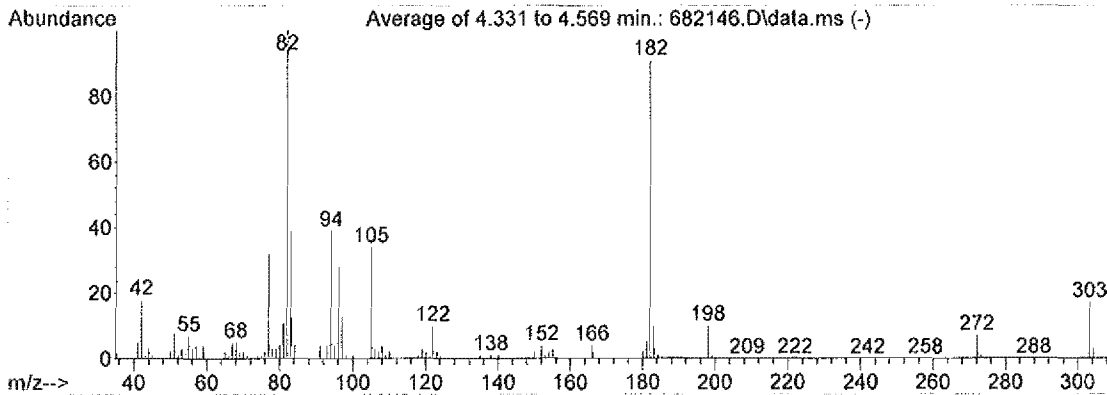
Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q4-2009\SYSTEM7\11_10_09\682146.D
 Operator : DCS
 Date Acquired : 10 Nov 2009 18:59
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 46
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 70
 C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.38	C:\Database\SLI.L COCAINE	000050-36-2	99



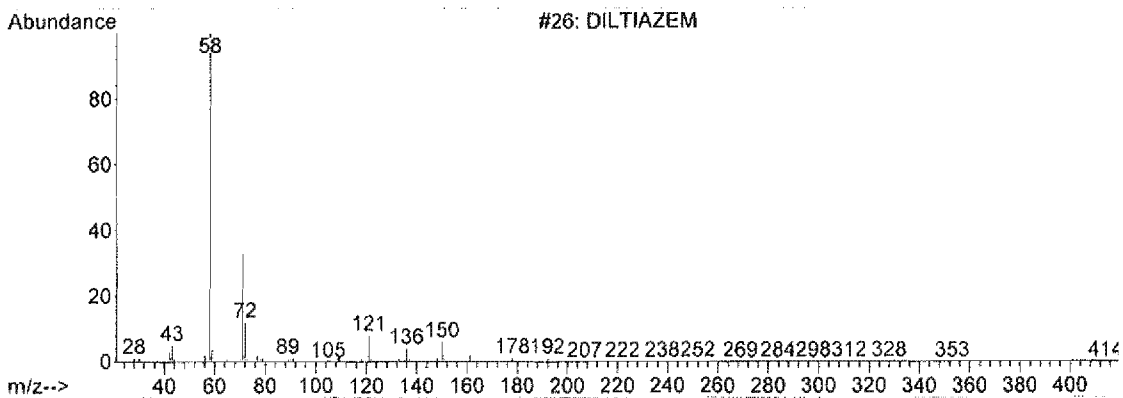
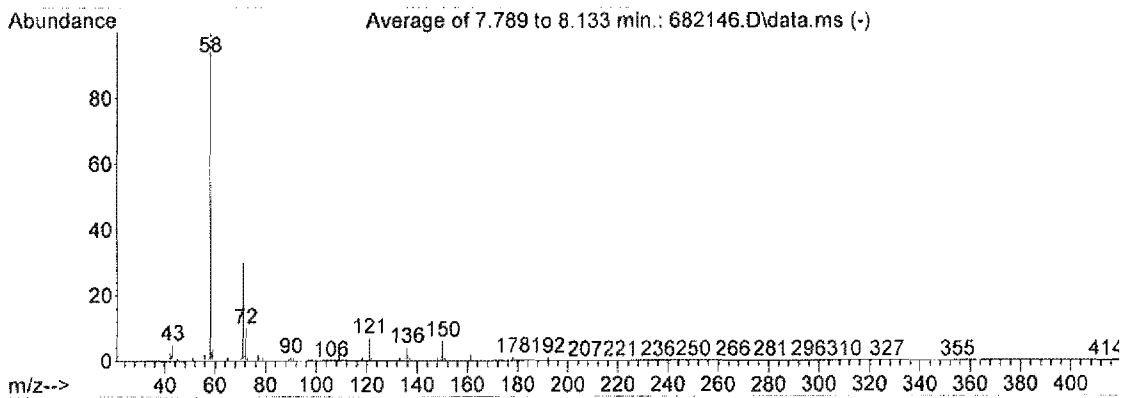
Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q4-2009\SYSTEM7\11_10_09\682146.D
 Operator : DCS
 Date Acquired : 10 Nov 2009 18:59
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 46
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 70
 C:\Database\PMW_TOX2.L

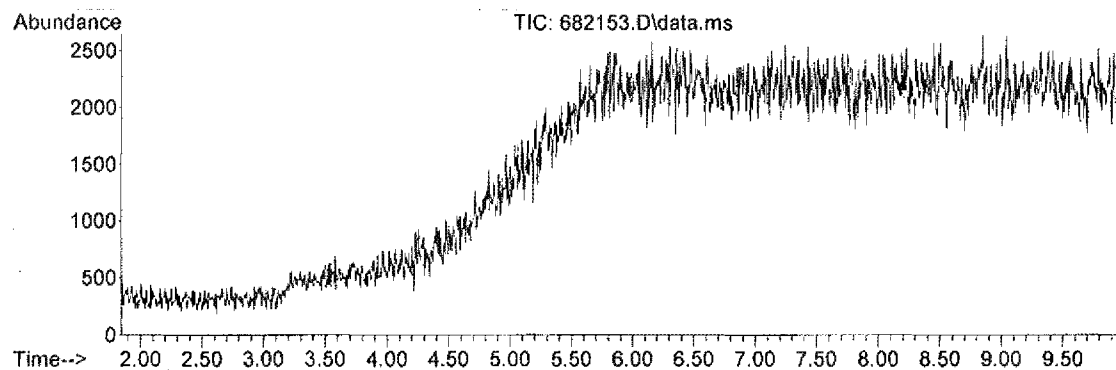
PK#	RT	Library/ID	CAS#	Qual
2	7.86	C:\Database\SLI.L		
		DILTIAZEM	033286-22-5	91
		3,4-MDMA	042542-10-9	50
		CITALOPRAM	059729-33-8	2



Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q4-2009\SYSTEM7\11_10_09\682153.D
Operator : DCS
Date Acquired : 10 Nov 2009 20:28
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE



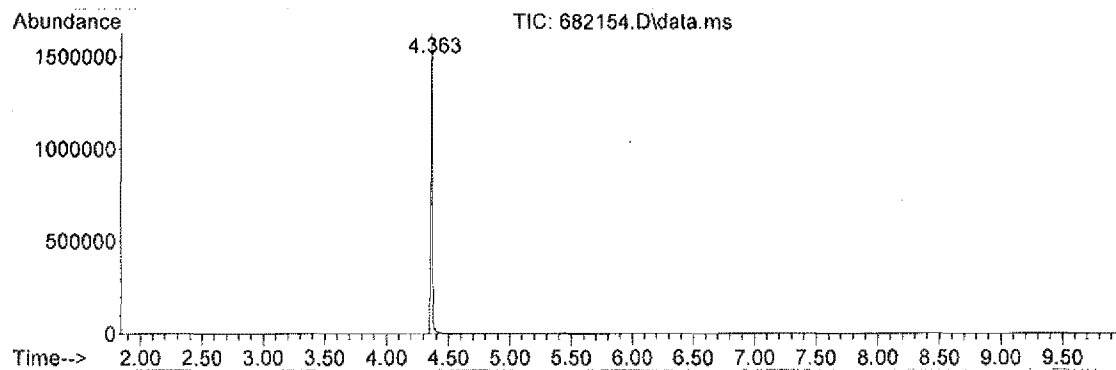
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q4-2009\SYSTEM7\11_10_09\682154.D
 Operator : DCS
 Date Acquired : 10 Nov 2009 20:41
 Sample Name : COCAINE STANDARD
 Submitted by :
 Vial Number : 54
 AcquisitionMeth: DRUGS.M
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.363	1460563	100.00	100.00

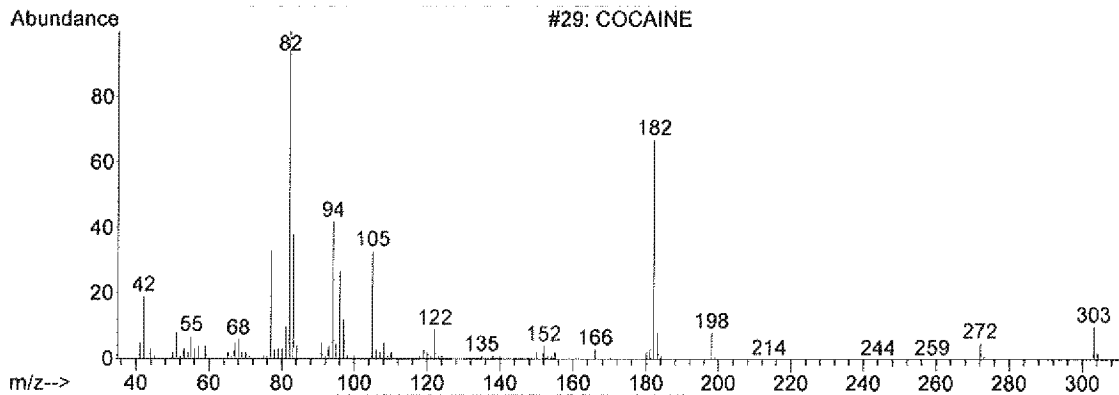
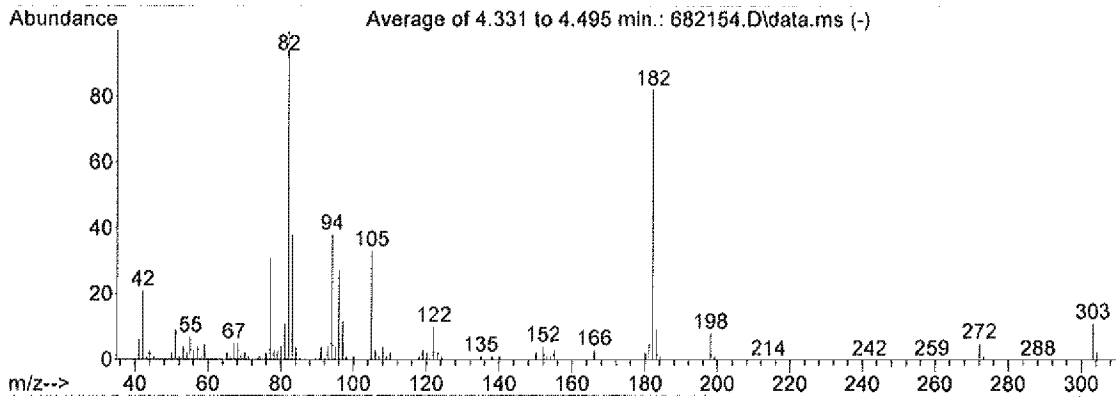
Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q4-2009\SYSTEM7\11_10_09\682154.D
 Operator : DCS
 Date Acquired : 10 Nov 2009 20:41
 Sample Name : COCAINE STANDARD
 Submitted by :
 Vial Number : 54
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 70
 C:\Database\PMW_TOX2.L

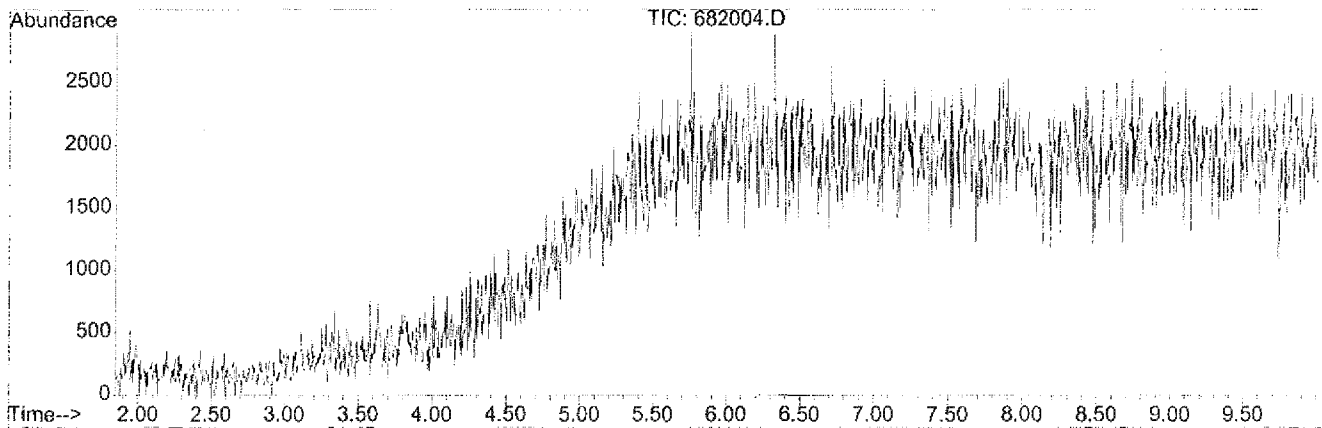
PK#	RT	Library/ID	CAS#	Qual
1	4.36	C:\Database\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q4-2009\SYSTEM4\11_10_09\682004.D
Operator : DCS
Date Acquired : 10 Nov 2009 9:57
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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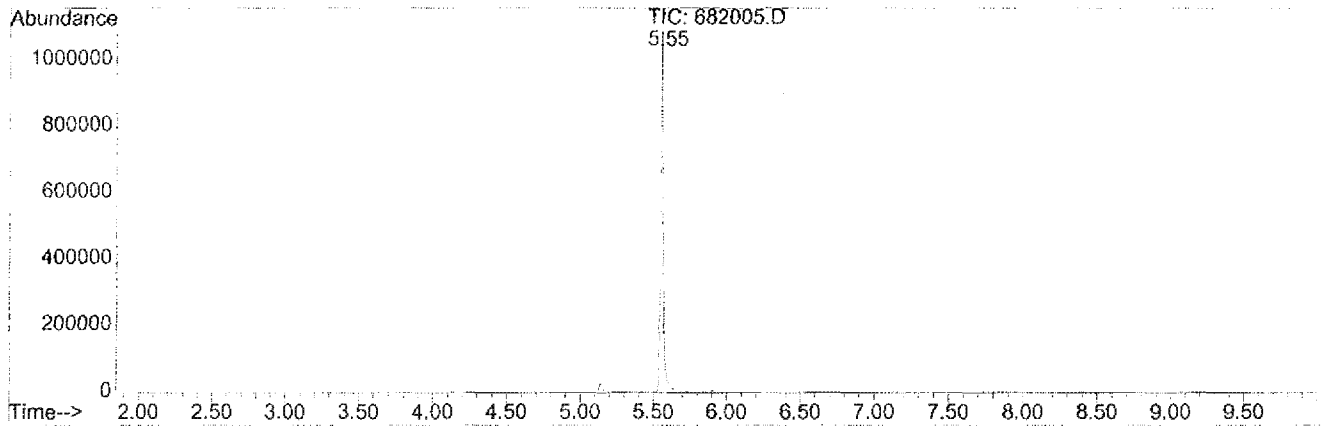
NO INTEGRATED PEAKS

✓ 2/9/11 JES

Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q4-2009\SYSTEM4\11_10_09\682005.D
Operator : DCS
Date Acquired : 10 Nov 2009 10:10
Sample Name : HEROIN STANDARD
Submitted by :
Vial Number : 5
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
5.554	1402099	100.00	100.00

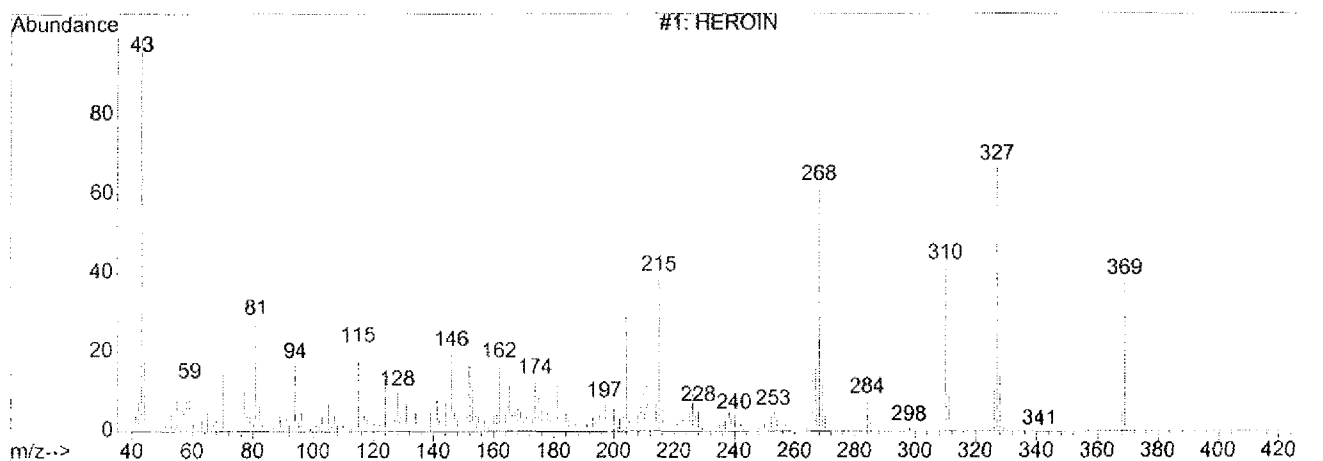
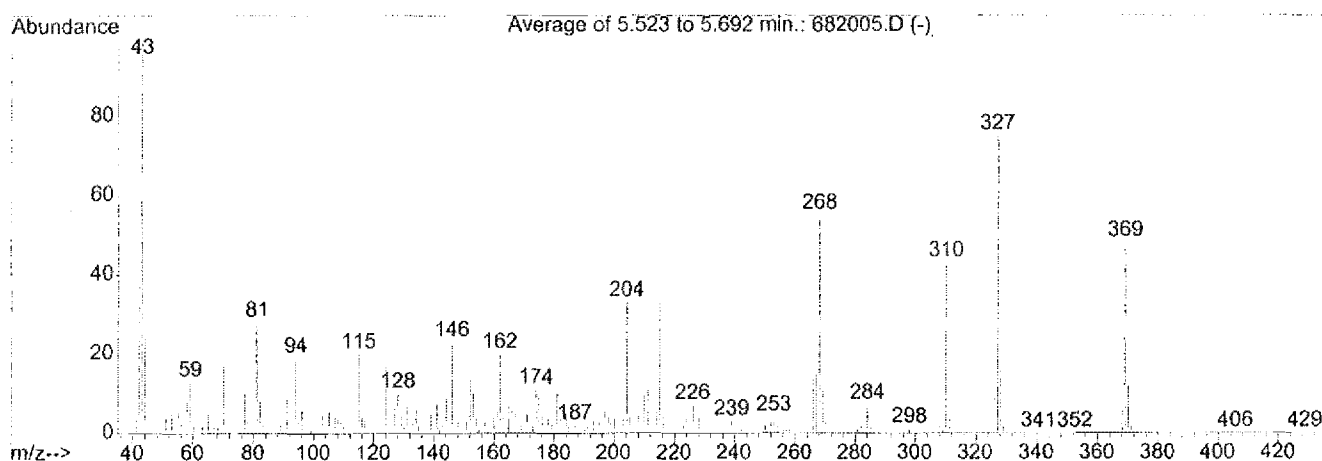
Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q4-2009\SYSTEM4\11_10_09\682005.D
 Operator : DCS
 Date Acquired : 10 Nov 2009 10:10
 Sample Name : HEROIN STANDARD
 Submitted by :
 Vial Number : 5
 AcquisitionMeth: DRUGS
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90
 C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
 C:\DATABASE\NIST98.L

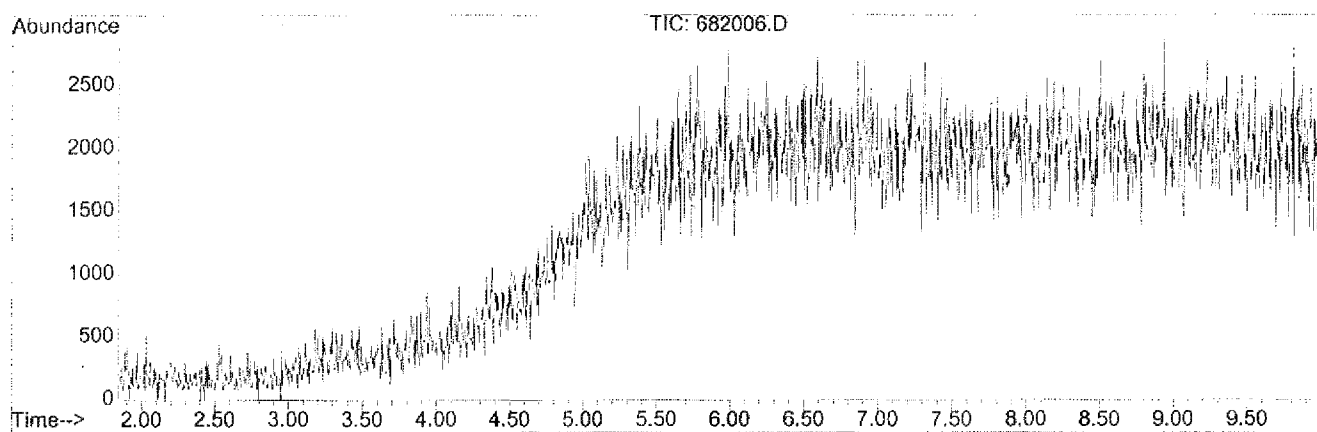
PK#	RT	Library/ID	CAS#	Qual
1	5.55	C:\DATABASE\SLI.L HEROIN	000561-27-3	96



Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q4-2009\SYSTEM4\11_10_09\682006.D
Operator : DCS
Date Acquired : 10 Nov 2009 10:24
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



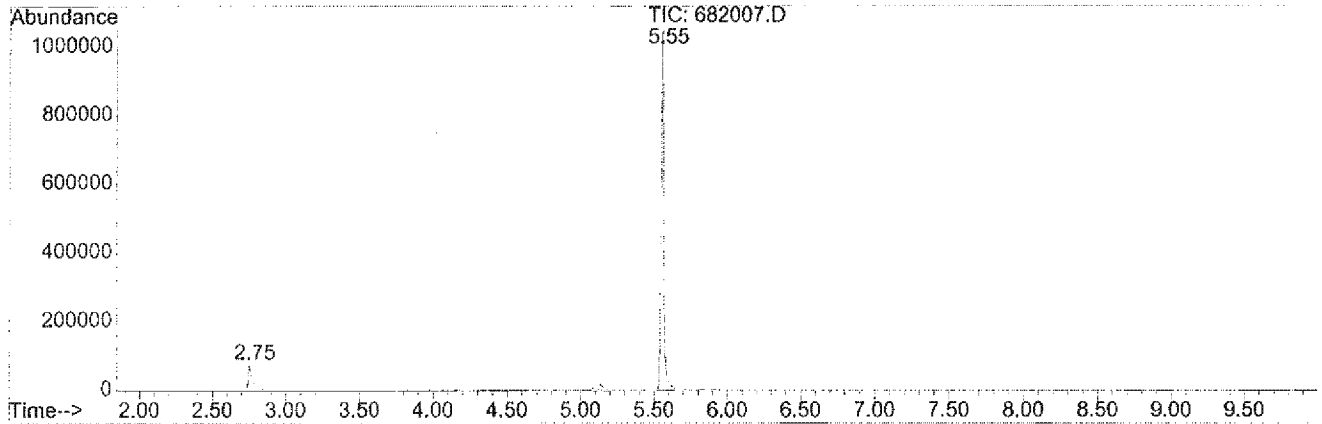
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q4-2009\SYSTEM4\11_10_09\682007.D
Operator : DCS
Date Acquired : 10 Nov 2009 10:37
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 7
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.748	153015	10.73	12.02
5.551	1273143	89.27	100.00

Area Percent / Library Search Report

Information from Data File:

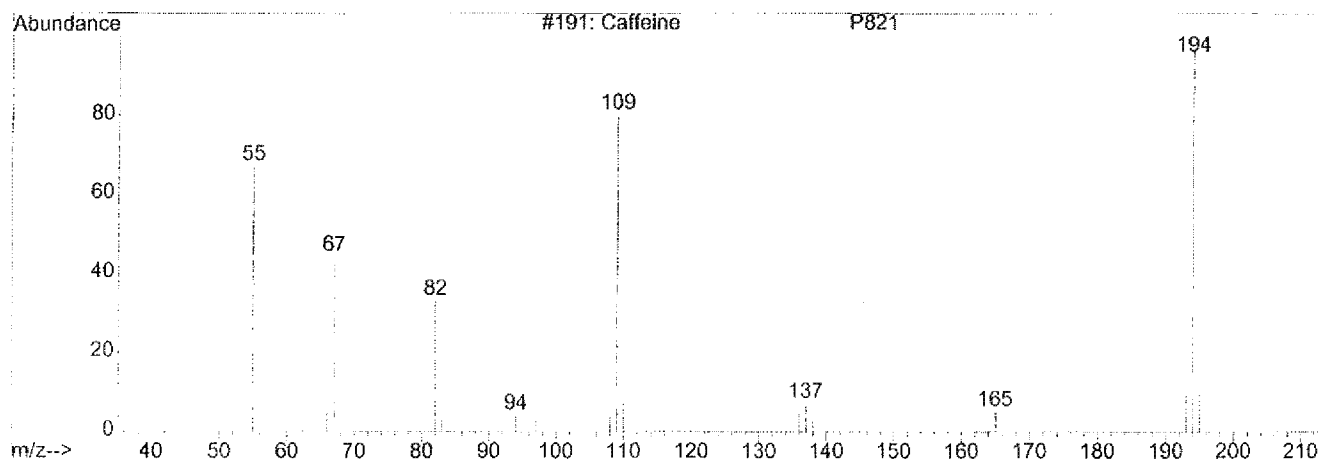
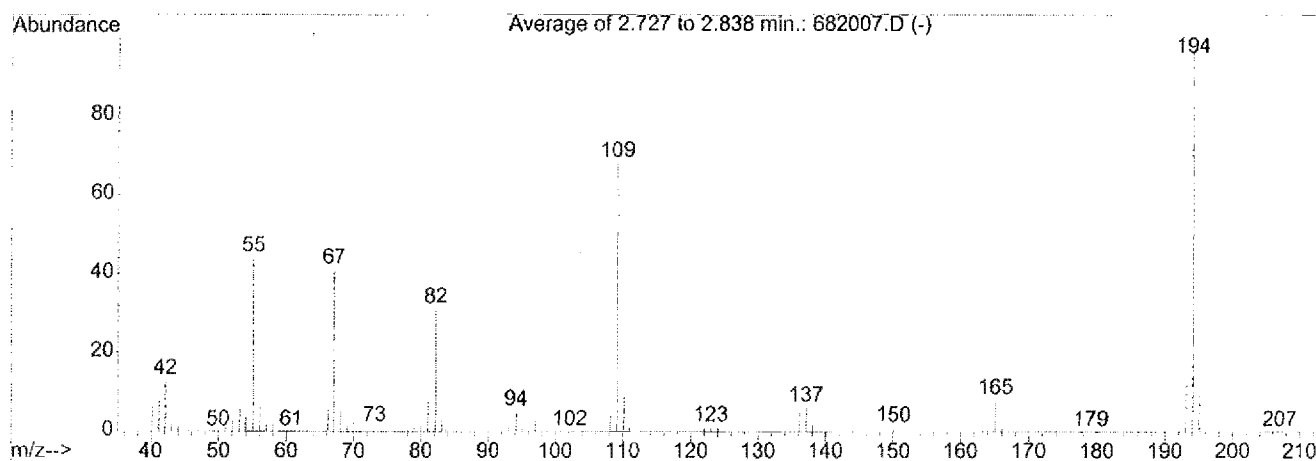
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File Name       : E:\Q4-2009\SYSTEM4\11_10_09\682007.D
Operator        : DCS
Date Acquired   : 10 Nov 2009  10:37
Sample Name     : 
Submitted by    : ASD
Vial Number     : 7
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	2.75	C:\DATABASE\PMW_TOX2.L		
		Caffeine	000058-08-2	96
		Endogenous biomolecule 2AC	000000-00-0	9
		Formetanate -C2HNO	000000-00-0	9



Area Percent / Library Search Report

Information from Data File:

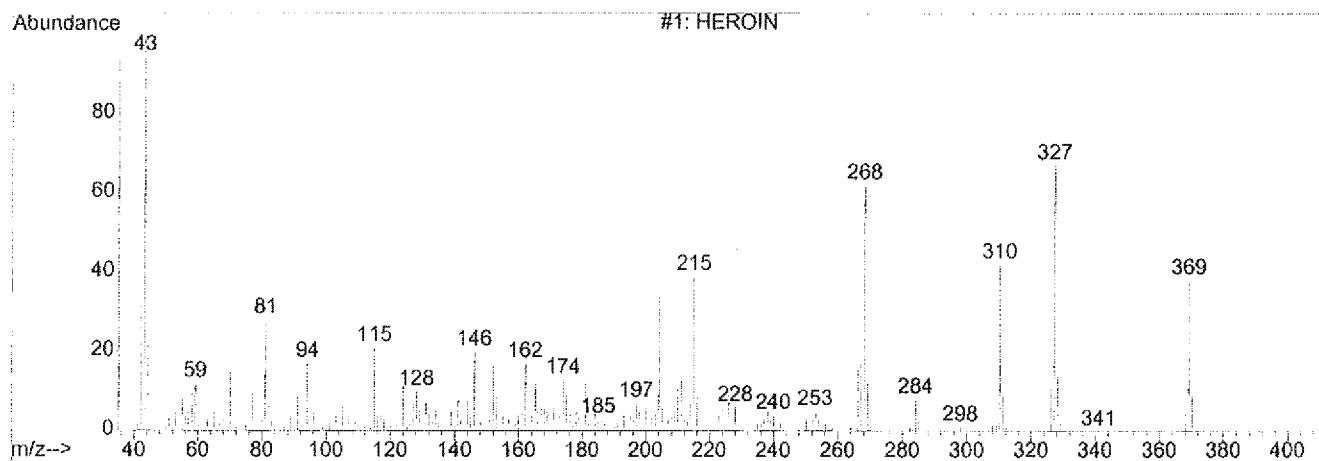
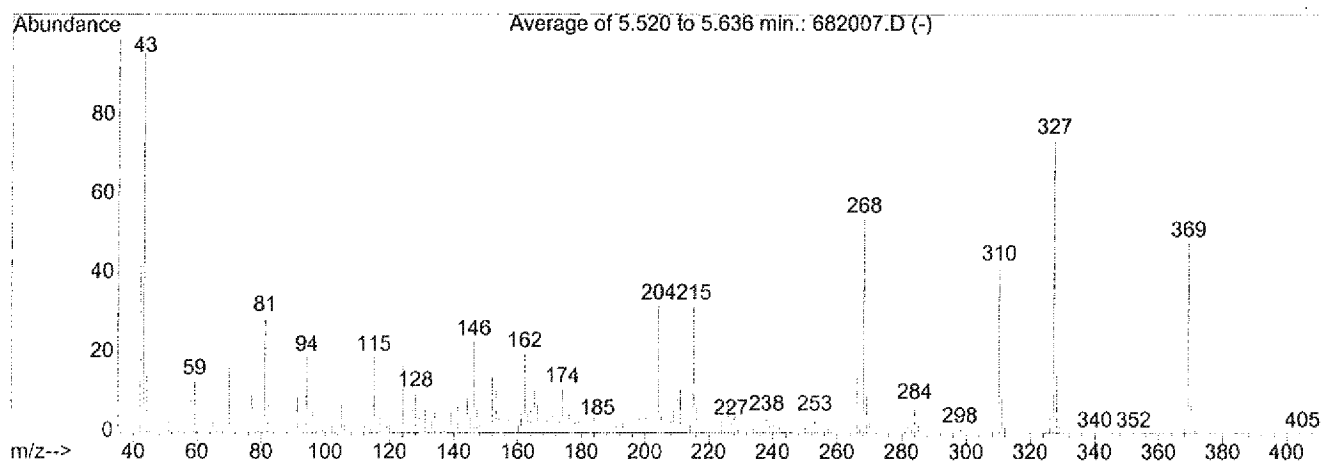
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File Name       : E:\Q4-2009\SYSTEM4\11_10_09\682007.D
Operator        : DCS
Date Acquired   : 10 Nov 2009  10:37
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 7
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

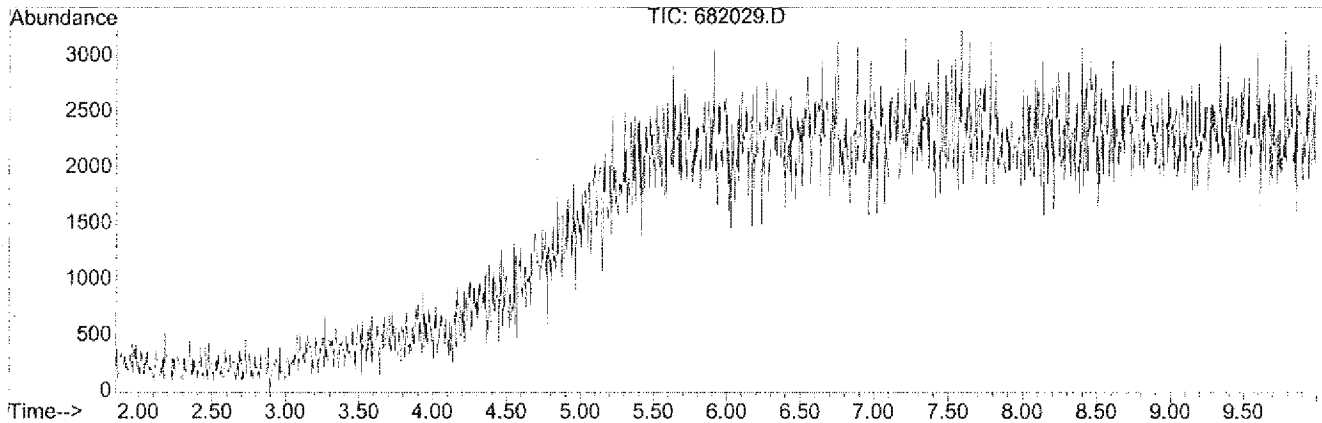
PK#	RT	Library/ID	CAS#	Qual
2	5.55	C:\DATABASE\SLI.L HEROIN	000561-27-3	99



Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q4-2009\SYSTEM4\11_10_09\682029.D
Operator : DCS
Date Acquired : 10 Nov 2009 15:38
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



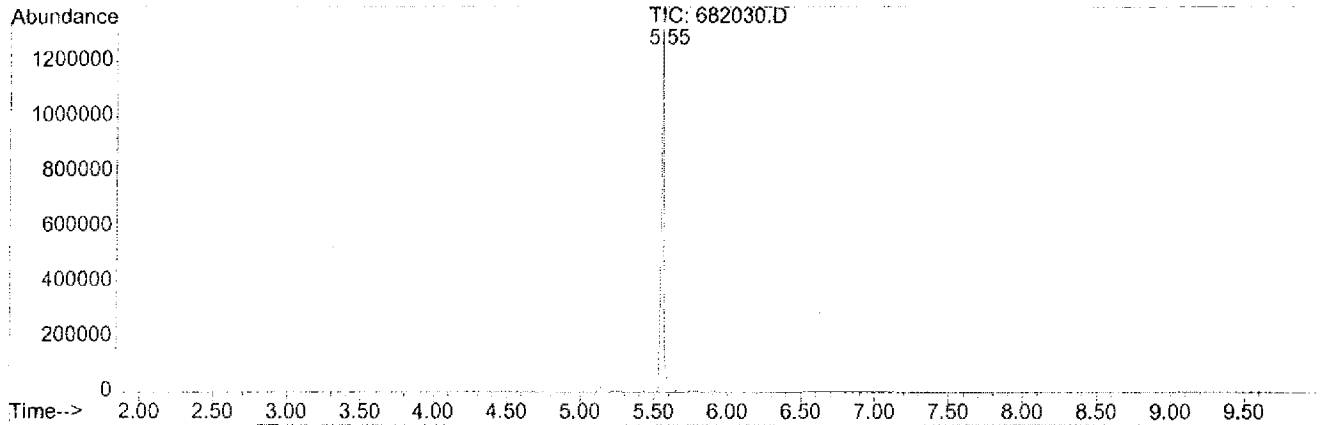
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q4-2009\SYSTEM4\11_10_09\682030.D
 Operator : DCS
 Date Acquired : 10 Nov 2009 15:52
 Sample Name : HEROIN STANDARD
 Submitted by :
 Vial Number : 30
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
5.554	1600372	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

```

File Name       : E:\Q4-2009\SYSTEM4\11_10_09\682030.D
Operator        : DCS
Date Acquired   : 10 Nov 2009  15:52
Sample Name     : HEROIN STANDARD
Submitted by    :
Vial Number     : 30
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	5.55	C:\DATABASE\SLI.L HEROIN	000561-27-3	99

